

[illegible]

5 The invention provides an isolated nucleic acid molecule
encoding an odorant receptor. The invention also
provides expression vectors containing such nucleic acid,
purified odorant receptor proteins encoded by the nucleic
acid, and transfected cells expressing the receptor
10 proteins. The invention further provides methods of
identifying odorant ligands and odorant receptors, of
developing fragrances, of identifying appetite
suppressant compounds, of controlling appetite, of
controlling pest populations, of promoting and inhibiting
15 fertility, and of detecting odors.